SONY

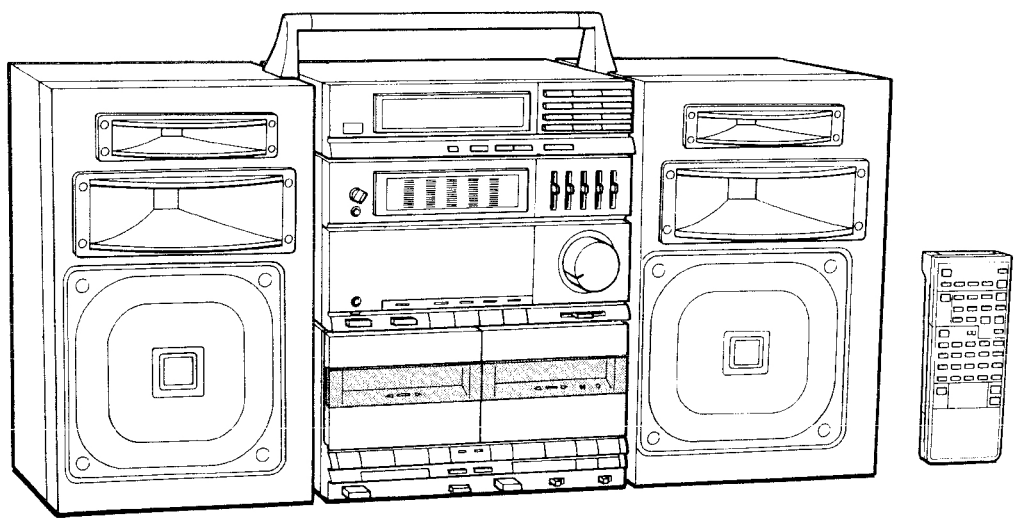
3-769-866-51 (1)

Compact Hi-density Component System

FH-808R

Operating Instructions page 2

Before operating the unit, please read this manual thoroughly and retain it for future reference.



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English

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Warning

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

Overview

The FH-808R is a stereo component system with remote control functions.
When the Sony CDP-S27 compact disc player, equipped with the system control connector, is connected to this stereo component system, the operation of the CD player, including power-on and power-off, can also be remotely controlled.

Tuner section

- You can tune in stations by:
  — selecting station frequencies manually.
  — selecting one of the memorized stations.
- You can scan preset stations to hear what is being broadcast on them.

Amplifier section

- Peak music power output is 380 W.
- You can listen to program sources such as a turntable system, or CD player, as well as the tuner and the cassette deck of this system, by connecting them to the amplifier.

Cassette deck section

- Double auto-reverse decks play back both sides of cassettes continously.
- Double decks allow you to:
  — dub tapes.
  — play back one deck then the other successively.

Precautions

On operating voltage

Before operating the stereo system, check that the operating voltage of your system is identical with the voltage of your local power supply.

On safety

- The stereo system is not disconnected from the AC power source as long as it is connected to the wall outlet, even if the stereo system itself has been turned off.
- Unplug the stereo system from the wall outlet if it is not to be used for an extended period of time. To disconnect the cord, pull it out by the plug. Never pull the cord itself.
- Should any solid object or liquid fall into the component, unplug the stereo system and have the component checked by qualified personnel before operating it any further.

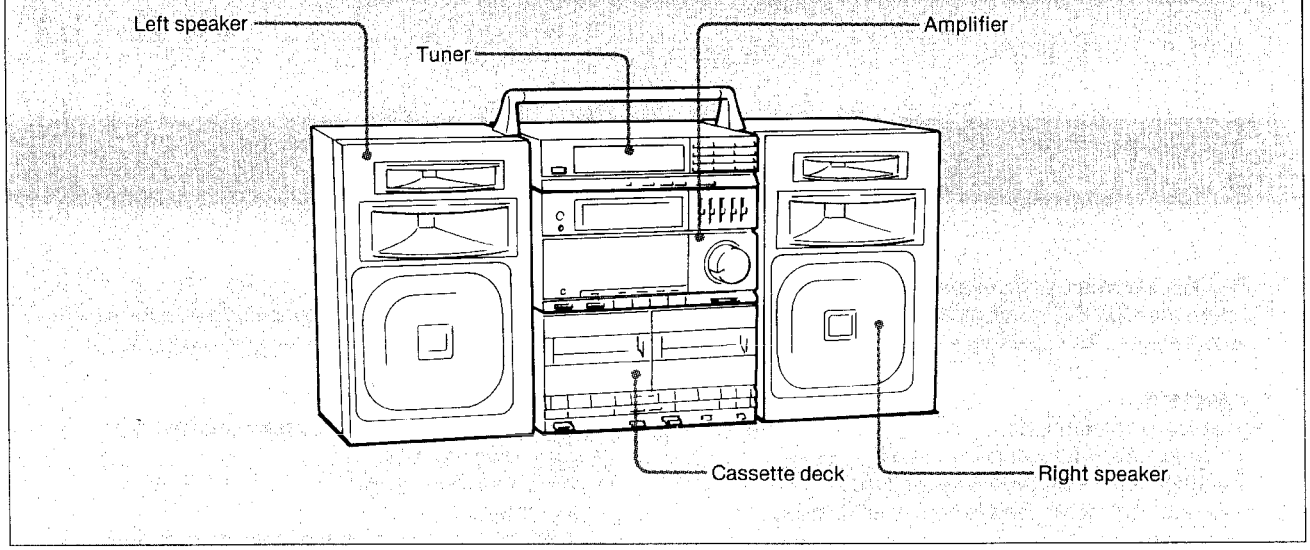
On installation

- Do not place anything on top of the unit. The ventilation holes must be unobstructed for the proper operation of the unit and to prolong the life of its components.
- Avoid installing or leaving the unit in a location:
  — near heat sources such as radiators, airducts or heaters
  — subject to direct sunlight
  — exposed to rain or moisture
  — where it is liable to come into contact with dust or dirt
  — that is unventilated, such as a bookcase

If you have any question or problem concerning your stereo system, please consult your nearest Sony dealer.

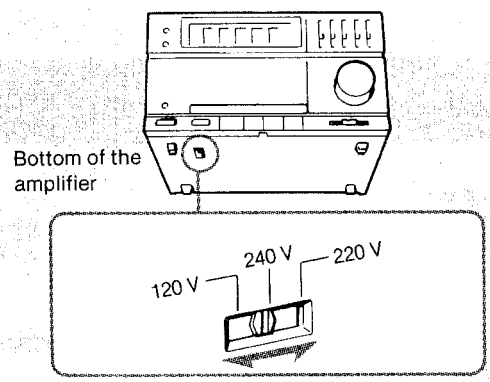
Installation

Setting up



Adjusting Operating Voltage

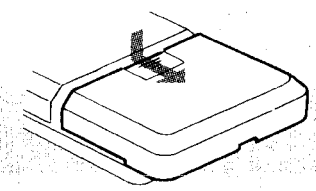
Before connecting the AC power cord to a wall outlet, check that the voltage selector on the bottom of the amplifier is set to the local power line voltage. If not, reset the selector as illustrated.



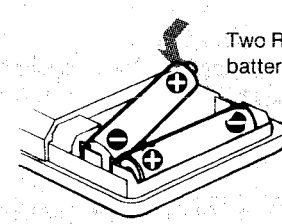
Installing Batteries

Install the batteries in the supplied remote commander for remote control operation.

1



2



Battery life

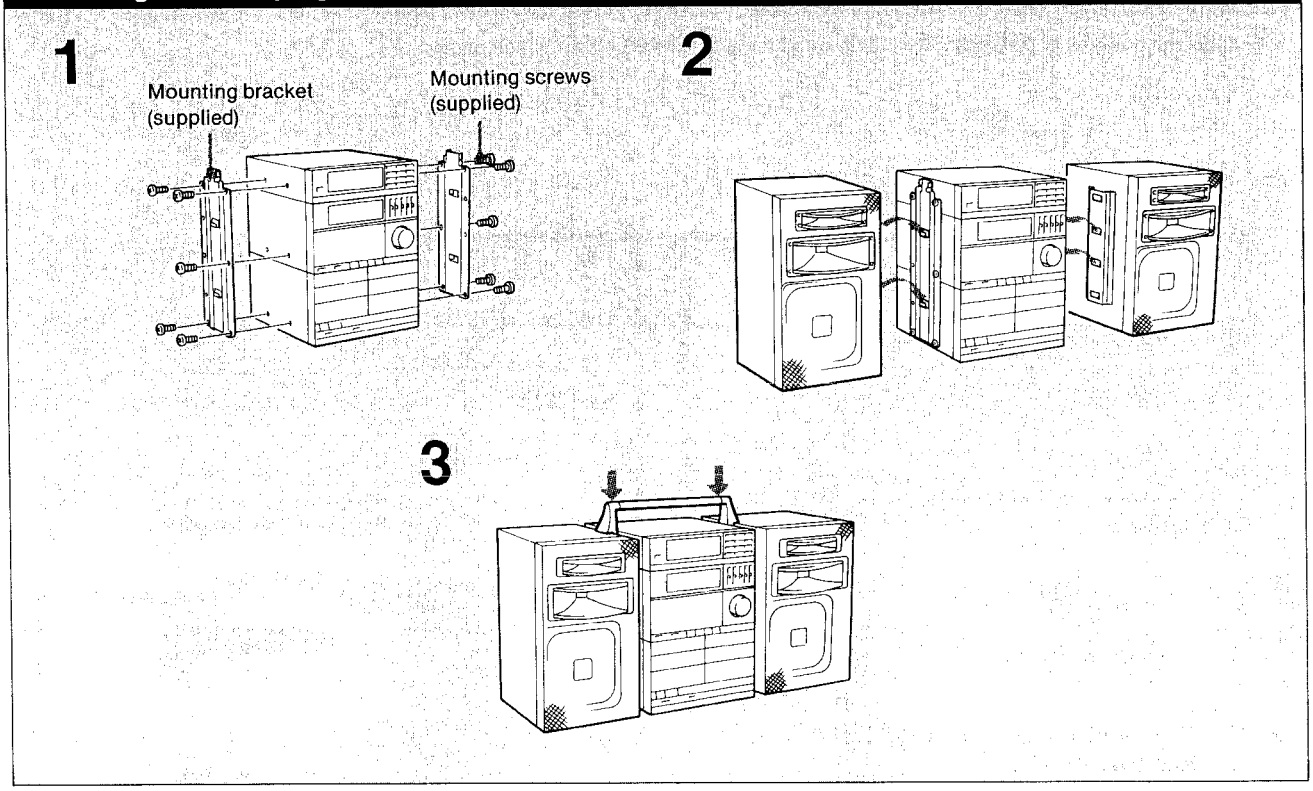
About half a year of normal operation can be expected when using the Sony SUM-3(NS) batteries.

When the batteries are exhausted, the remote commander cannot operate the stereo system. Replace both batteries with new ones.

To avoid battery leakage

When the commander is not to be used for a long period of time, remove the batteries to avoid damage caused by battery leakage and corrosion.

Attaching the Carrying Handle



Changing the MW Tuning Interval

The MW tuning interval is preset at the factory to 9 kHz. If you use the system where the frequency allocation system is based on the 10 kHz interval, change the interval as follows.

1 Turn on the POWER switch.
2 Tune in any MW station.
3 Turn off the POWER switch.
4 Turn the POWER switch back on while pressing the TUNING + button.

To reset the interval, follow the same procedure.

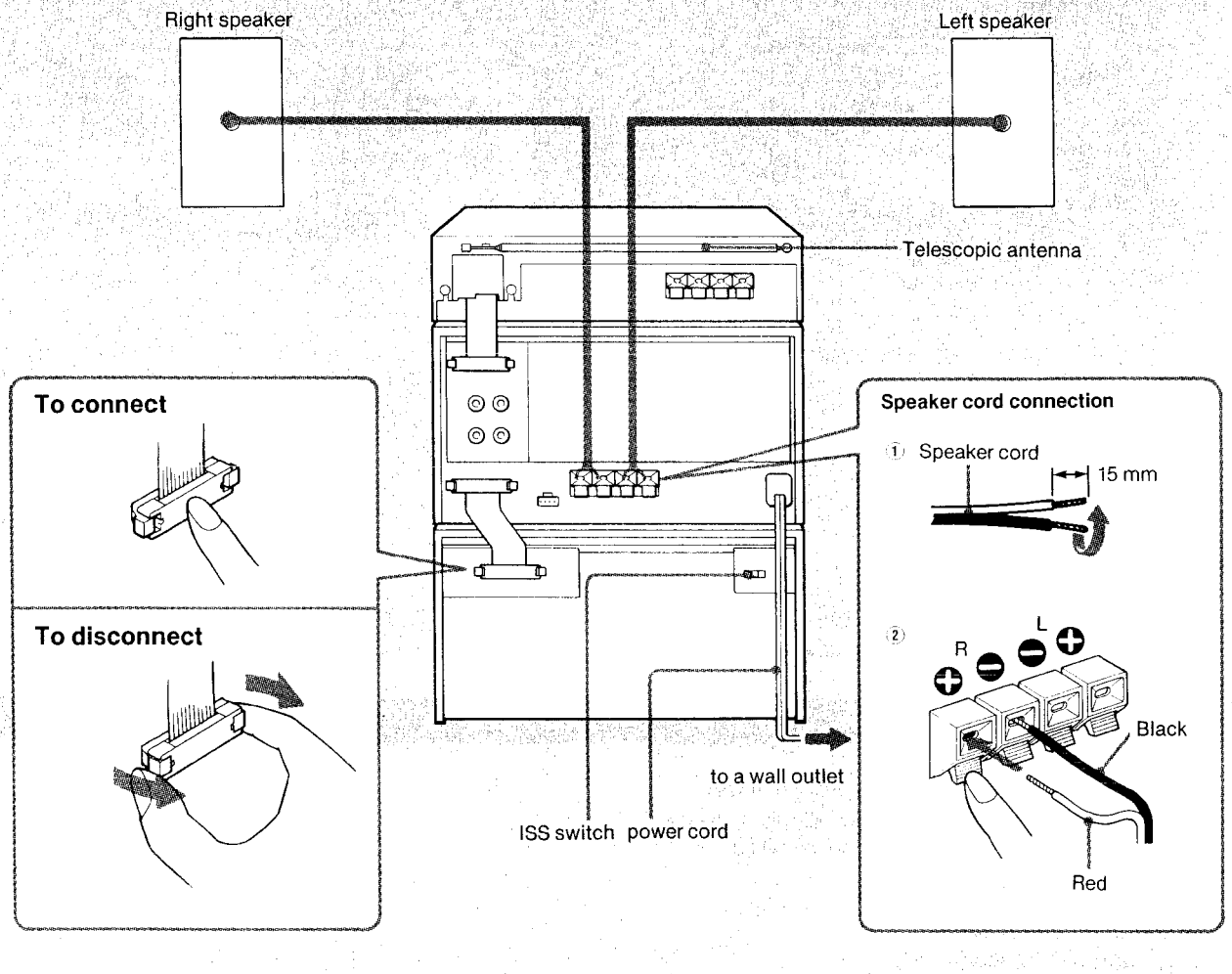
Important

When the interval is changed, memorized stations will be erased from memory.

Connections

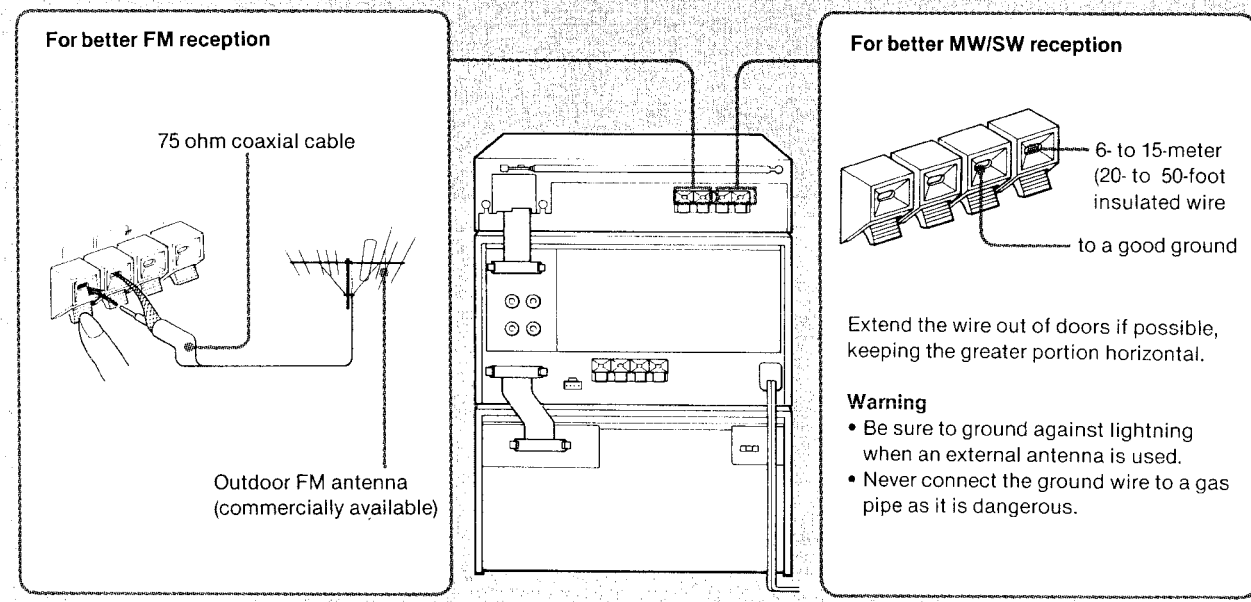
Basic Connection

Connect the power cord last of all, first making sure that the POWER switch is turned off.

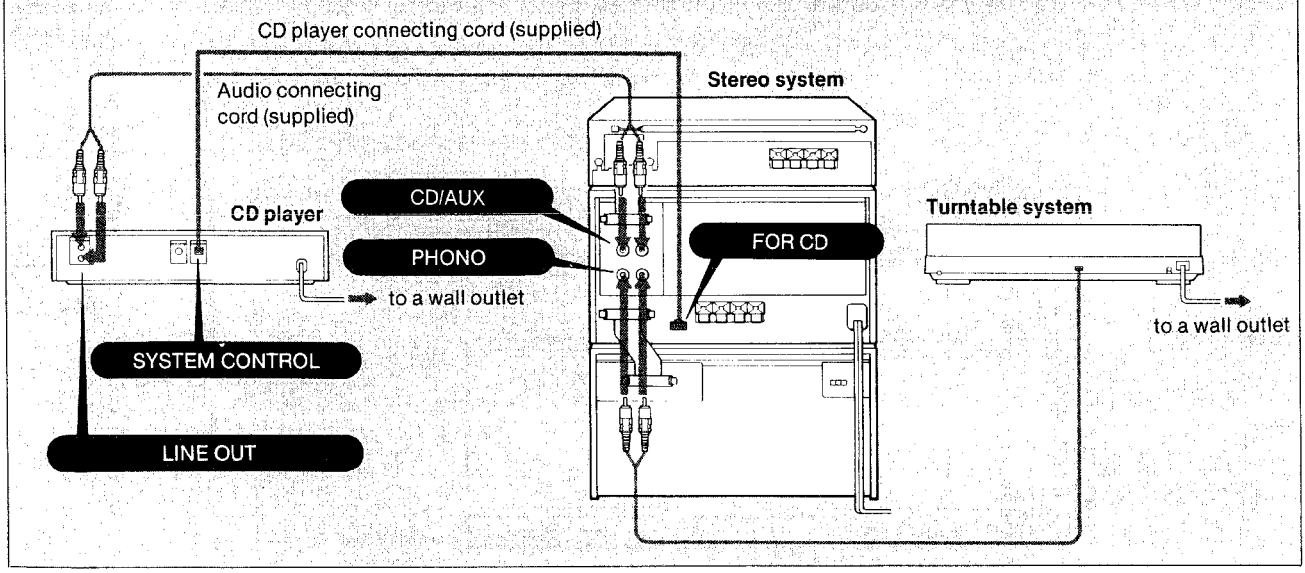


For the customers of the model supplied with an AC plug adaptor:
If the plug of the power cord does not match with your wall outlet, use the supplied plug adaptor.

For Better Broadcasting Reception


For better FM reception
75 ohm coaxial cable
Outdoor FM antenna
(commercially available)
For better MW/SW reception
6- to 15-meter
(20- to 50-foot
insulated wire
to a good ground
Extend the wire out of doors if possible, keeping the greater portion horizontal.
Warning
• Be sure to ground against lightning when an external antenna is used.
• Never connect the ground wire to a gas pipe as it is dangerous.

Adding Other Components to Your System

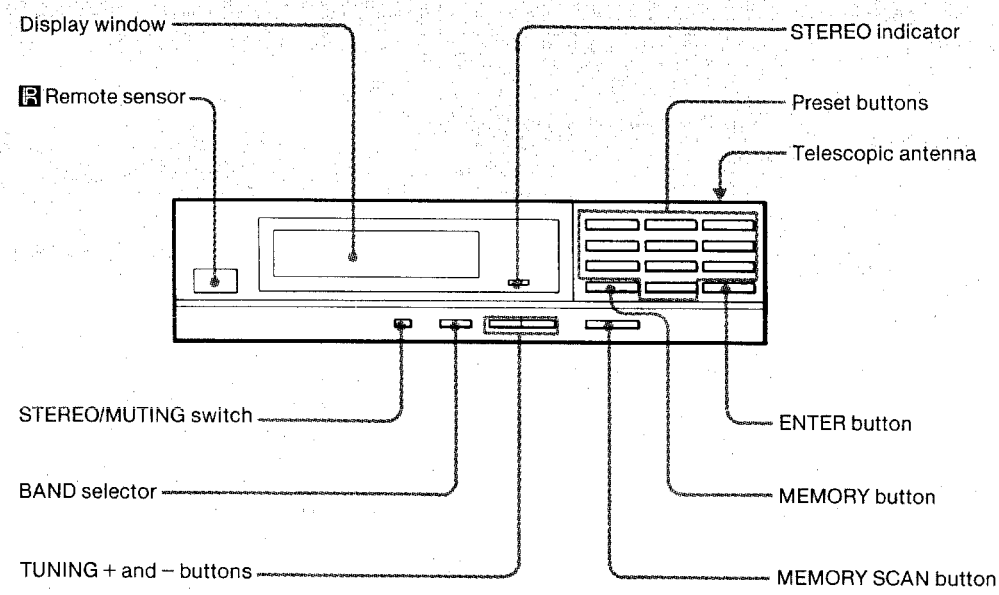


For program source connections
The red jacks of the stereo system are for right-channel (R) connections and the white jacks for the left-channel (L).

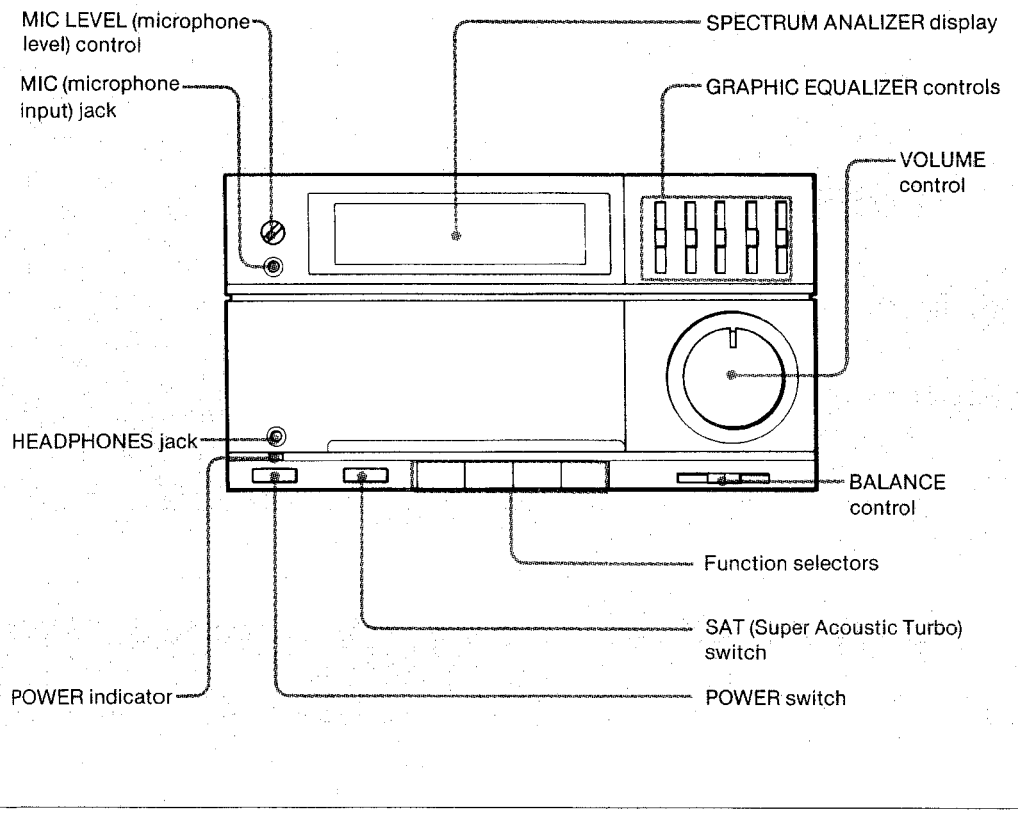
Controlling CD player's power
When the CDP-S27 compact disc player is connected as illustrated above, and the POWER switch of the CD player is set to the ON position, its power is turned on and off by the POWER switch of the amplifier.
When the tuner is activated, the CD player is turned off automatically.

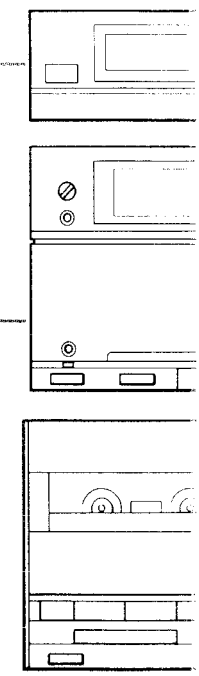
Parts Identification

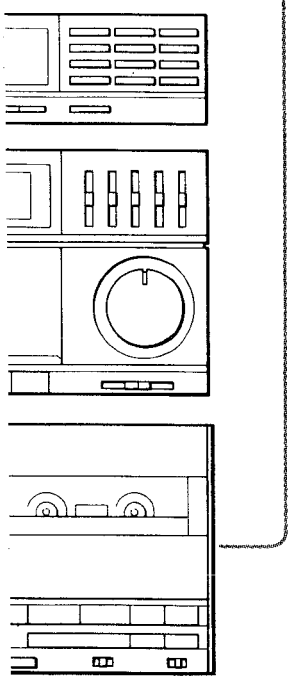
Tuner



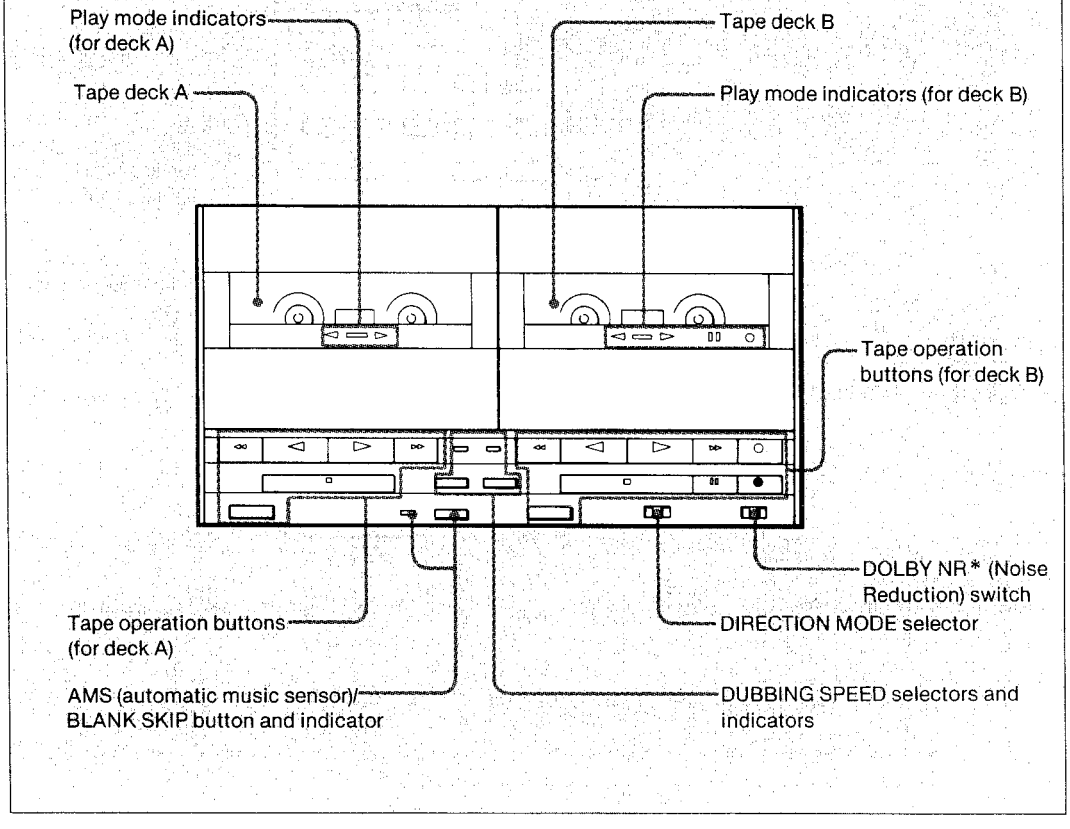
Amplifier





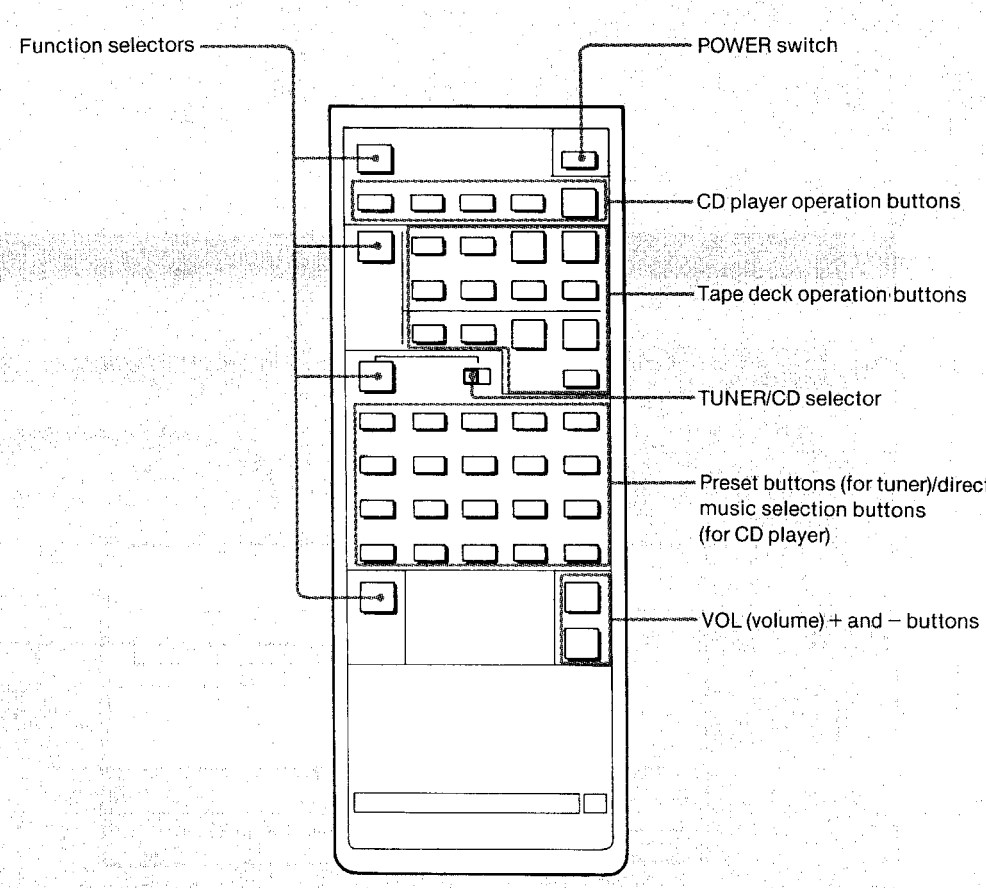


Cassette Deck


Play mode indicators (for deck A)
Tape deck A
Tape deck B
Play mode indicators (for deck B)
Tape operation buttons (for deck B)
DOLBY NR* (Noise Reduction) switch
DIRECTION MODE selector
Tape operation buttons (for deck A)
AMS (automatic music sensor)/ BLANK SKIP button and indicator
DUBBING SPEED selectors and indicators

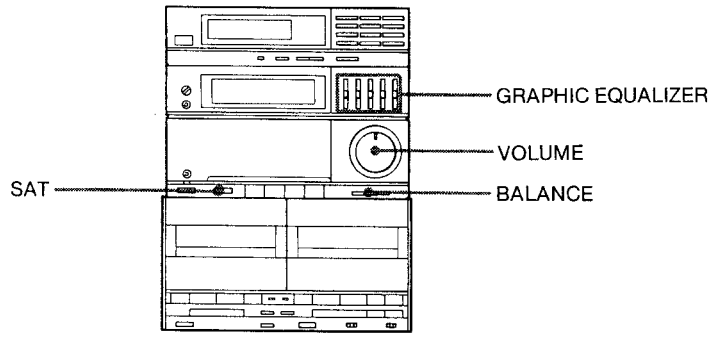
*Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol ⊡⊡ are trademarks of Dolby Laboratories Licensing Corporation.

Remote Commander


Function selectors
POWER switch
CD player operation buttons
Tape deck operation buttons
TUNER/CD selector
Preset buttons (for tuner)/direct music selection buttons (for CD player)
VOL (volume) + and – buttons

Audio Adjustment

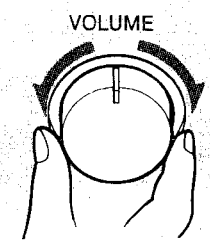
For getting the optimum sound, you can adjust volume and sound quality using the functions below.



Volume Adjustment

To adjust volume

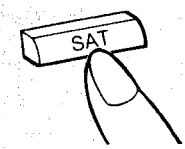
Turn VOLUME clockwise for increasing volume, and turn counterclockwize for decreasing it.



Sound Quality Adjustment

To reinforce the bass

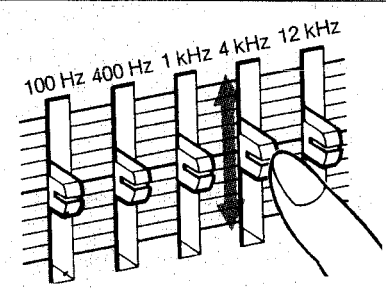
Depress SAT (Super Acoustic Turbo).
The lower the speaker output level is, the more the bass sound is emphasized.



To adjust response of the specific frequency range *

Slide GRAPHIC EQUALIZER control of the desired frequency. Slide upward to increase response, and slide downward to decrease it.

To listen without equalization, set all controls to the center position (0).



Balance Adjustment

To change the relative strength of the right and left speaker output

Adjust BALANCE to correct stereo imaging, when the speaker position is not symmetrical.

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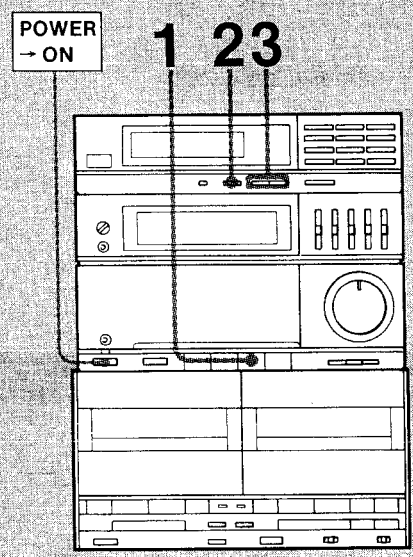
* Frequency coverage of each equalizer control
100 Hz: Use to boost or cut bass.
400 Hz: Use to adjust the power, spaciousness and warmth of the sound.
1 kHz: Use to provide more presence for vocals.
4 kHz: Use to adjust the brightness of the sound.
12 kHz: Use to highlight the delicate quality of instrumental sound.

Radio Broadcast Reception

Tuning Manually

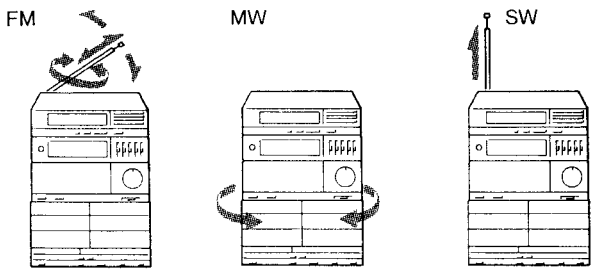


1 **Press TUNER.**
It is not necessary when you first listen to radio programs after turning on the unit.

2 **Select the desired band** with BAND.

3 **Find the desired station** with the TUNING + and – buttons.

Getting better reception



Meter bands of SW stations

Band	Frequency	Meter band
SW1	3.2 – 3.4 MHz	90 m
	3.9 – 4.0 MHz	75 m
	4.75 – 5.06 MHz	60 m
	5.95 – 6.20 MHz	49 m
	7.10 – 7.30 MHz	41 m
SW2	9.50 – 9.775 MHz	31 m
	11.7 – 11.975 MHz	25 m
	15.10 – 15.45 MHz	19 m
	17.70 – 17.90 MHz	16 m
	21.45 – 21.75 MHz	13 m

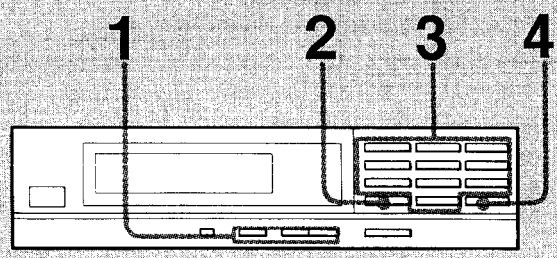
Eliminating FM interstation noise
When manually tuning, keep STEREO/MUTING engaged to eliminate interstation noise.

Receiving a noisy FM station or a very weak station
Disengage STEREO/MUTING for better reception. The sound will be monaural instead.

Display and indicator
TUNED: Appears when a station of sufficient signal strength is tuned in.
STEREO: Lights up when an FM stereo program of sufficient signal strength is received.
MUTING: Appears when STEREO/MUTING is engaged.

Tuning in Memorized Stations

Once you store up to 15 desired stations in memory, you can tune them in by a simple operation.



Entering station frequencies into memory

1 **Tune in the desired station.**

2 **Press MEMORY.**
"MEMORY" will light up on the display window.

3 **Select a preset station number** 1 to 15 with the preset buttons.

4 **Press ENTER** while "MEMORY" is still lit.
The station received is now stored in memory.

Repeat the above procedure for each station to be preset.

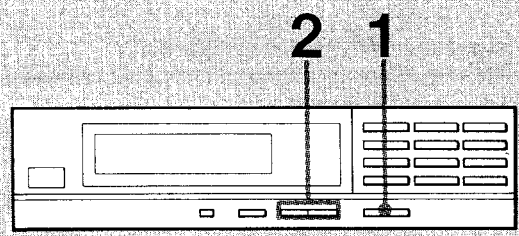
Tuning in a preset station

1 **Select the desired station preset number** with the preset buttons.

2 **Press ENTER** while the selected number is displayed.

Scanning Memorized Stations

You can tune in the memorized stations successively to hear what programs are being broadcast.



1 **Press MEMORY SCAN.**
A preset station number flashes on the display window.

2 **Press TUNING + or −** while the preset number indication on the display blinks.
Preset stations are tuned in successively.

To stop scanning, press MEMORY SCAN again as soon as the desired station is received.

When "MEMORY" disappeared during presetting?!
Press MEMORY again to set station frequencies.

When you enter an incorrect preset station number
Press MEMORY and enter the correct preset number.

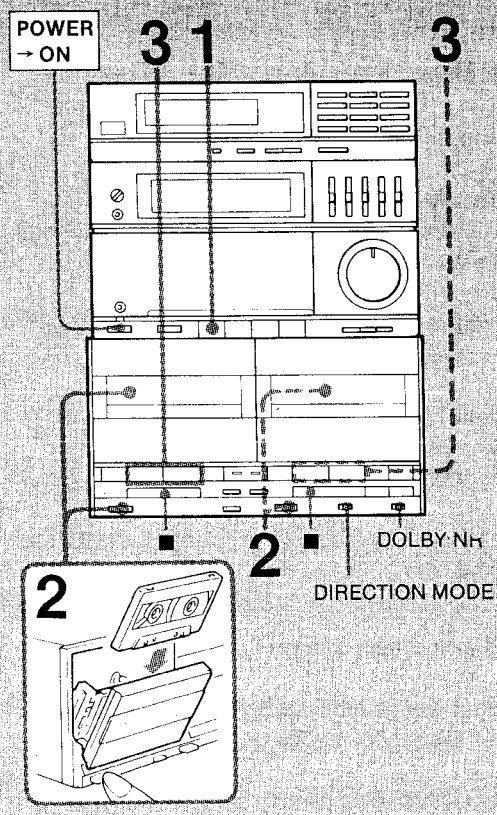
Can a station preset number be erased?
No, but a new station can be stored over the previously memorized one.

Memory of the preset stations includes:
— Band setting
— STEREO/MUTING switch setting

Which stations are skipped during memory scanning?
The memory scan will skip those which have a very weak signal.

Tape Playback

Playing One Deck



1 **Press TAPE.**

2 **Press EJECT** to open the cassette holder and **insert a recorded cassette.**

3 **Start playback.**
From the front side: Press ▶.
From the reverse side: Press ◀.

To stop playback, press ■.
To pause, press ❚❚.
To resume playback, press ❚❚ again.
To fast-wind the tape, press ◀◀ or ▶▶.

Side of the cassette being played back

Indicator	Side of the cassette being played back
▷	Front side
◁	Reverse side

How to select the DIRECTION MODE position

	Selector position
To playback one side of the cassette	→
To playback both sides of the casette 5 times repeatedly	↻

How to use the DOLBY NR switch

Set the DOLBY NR switch to the same position as was used when the cassette was recorded.

When the supplied remote commander is used for deck operation
The deck with the cassette is controlled by the remote commander.

When both decks A and B are in the playback mode
Only playback from deck A will be audible.

When you start repeat play from the reverse side
If you set DIRECTION MODE to ↻ and start playback from the reverse side, both sides of the cassette will be played back 4 times after the reverse side is played back.

Playing from Deck A to B in Succession—Relay Play

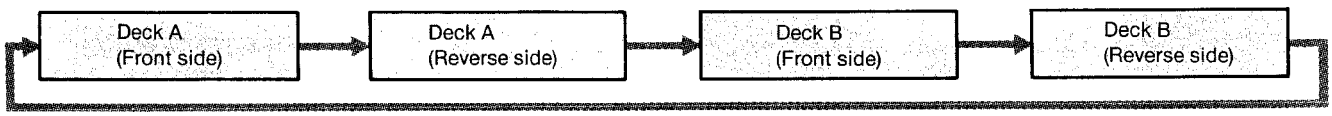
Relay play always follows the sequence below regardless of where playback starts.
When playback of the reverse side of the tape in deck B is completed, the following sequence continues 4 more times.

1 Insert recorded cassettes in both decks.

2 Set DIRECTION MODE to RELAY.

3 Press ▶ or ◀ on deck A or deck B.

To stop relay play, press ■ of the deck playing.



Playing Automatically after Fast Winding—Auto Play

You can automatically start playback from the beginning of the tape following fast winding.

1 Turn off AMS/BLANK SKIP.

2 Start rewinding as follows:
To start playback from the beginning of the front side:
Press ▶ while keeping ◀◀ pressed.
To start playback from the beginning of the reverse side:
Press ◀ while keeping ▶▶ pressed.

Locating the Beginning of a Selection during Playback—Automatic Music Sensor (AMS)

The AMS detects the blank space between selections and locates the beginning of a selection during playback. To assure correct operation of the AMS, there must be a blank of 4 seconds or longer between selections.

1 Press AMS/BLANK SKIP to illuminate its indicator.

2 Check the indicator and press ▶▶ or ◀◀ referring to the following table.

Indicator	Side of the cassette being played	Desired selection	
		Next Selection	Selection being played
☼ ▷	Front side	▶▶	◀◀
◁ ☼	Reverse side	◀◀	▶▶

Skipping a Blank

The deck automatically goes into the fast winding mode where there is a blank of about 10 seconds or more. Playback begins when a new selection begins.

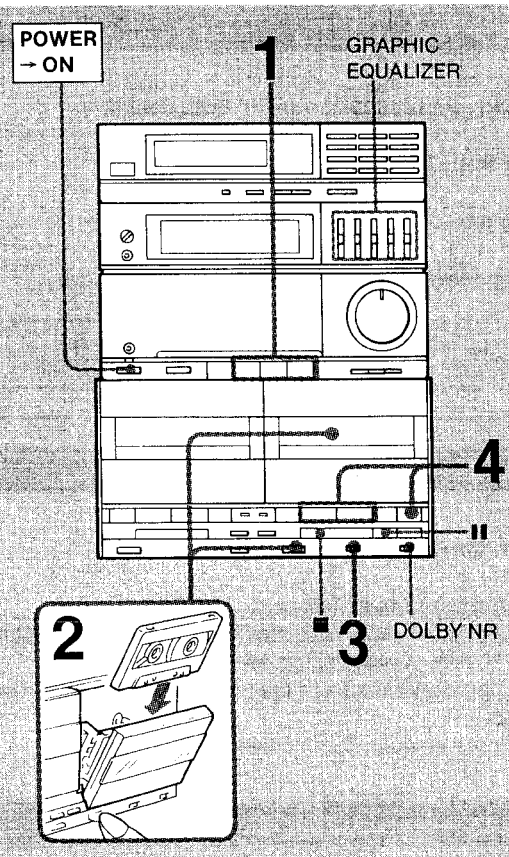
Press AMS/BLANK SKIP to illuminate its indicator.

Notes on the AMS
- The AMS does not function on both decks simultaneously. The deck whose ◀◀ or ▶▶ button is pressed first goes into the AMS mode. If the ◀◀ or ▶▶ button is then pressed on the other deck, it simply goes into the fast winding mode.
- If the AMS is operated on deck B during playback on deck A, deck B fast-winds to the beginning of a selection and stops. If the AMS is operated on deck A during playback on deck B, deck A fast-winds to the beginning of a selection and then begins playback. Deck B's sound is cut off when deck A begins playback.
- The AMS does not function when the blank skip function is operating.

If the blank skip function is activated when both decks A and B are playing
It operates on deck A only.

120-minute cassettes are not recommended except when necessary for long continuous recording and playback
120-minute cassettes use extremely thin tape which tangles easily when the tape transport is stopped and started frequently.

Tape Recording (Deck B)



1 **Select the program source you want to record:** Press CD, TUNER, or PHONO.

2 **Press EJECT and insert a cassette for recording into deck B.**

3 **Select the side(s) to be recorded:**

	DIRECTION MODE setting
To record on one side	⇀
To record on both sides (from side A to B)	⇄

4 **Start recording.**
To record starting from the front side:
Keeping ● pressed, press ►.

To record on the reverse side only:
Keeping ● pressed, press ◄.

Recording begins.

To stop recording, press ■.

How to Start Recording More Precisely

1 Press II.

2 While keeping ● pressed, press ► or ◄.

3 Press II again at the desired point.
Recording will begin.

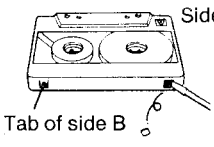
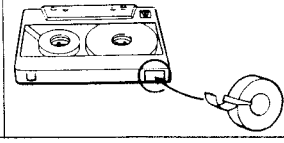
Reducing Tape Hiss Noise with the DOLBY NR Switch

To engage Dolby NR system, set DOLBY NR to ON. To disengage it, set DOLBY NR to OFF.

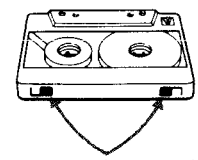
Dolby NR system

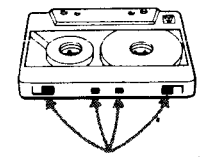
Dolby NR (noise reduction) system reduces tape hiss noise in low-level high-frequency signals. The system boosts these signals in recording and lowers them in playback.

To prevent accidental erasure

To protect side A recording	To reuse a cassette
Break out the tab of side A. 	Cover each slot with plastic tape. 

When using TYPE II (CrO_2) or TYPE IV (metal) cassettes
Be careful not to cover the detector slots which are necessary for automatic tape type detection.


CrO_2 tape detector slots


Metal tape detector slots

Inserting a Blank Space

Using the O button during recording, you can insert a blank space in a tape to help you locate a selection (AMS function, see page 15). In addition, this function enables you to eliminate unwanted input by replacing it with a blank space.

1 While recording, press O.

If you want the blank to be four seconds long, press and release immediately.

After four seconds, the unit goes into the pause mode.

If you want it to be longer, keep pressing for as long as you want.

When you release O, the unit goes into the pause mode.

2 Press II again to resume recording.

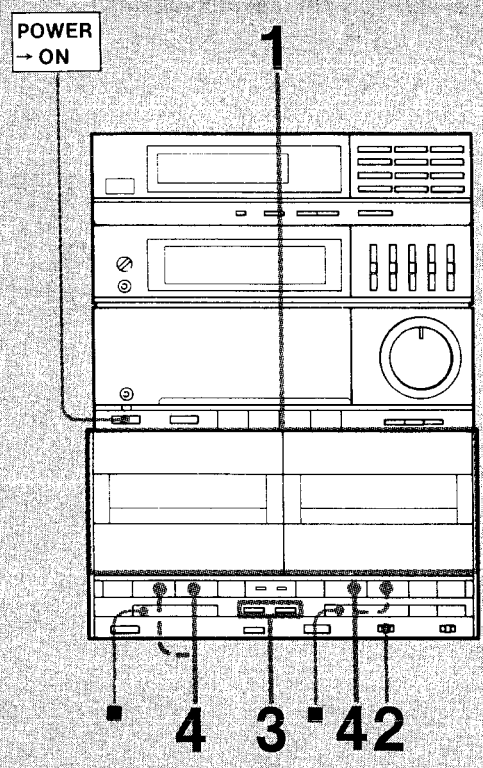
If whistling noise is heard during recording AM program:
Slide the ISS (Interference Suppress Switch) at the rear to position 1, 2 or 3 depending on which best reduces the noise.

CAUTION
A TV set may interfere with recording or dubbing. If the sound becomes impaired, move the TV set away from the system or turn it off.

Tape Dubbing (from Deck A to Deck B)

Dubbing the Tape Automatically

The tape on deck A can be dubbed onto the tape on deck B without any adjustments.
High speed dubbing is convenient to dub a whole tape, and the normal speed to edit the tape.



1 **Insert a recorded cassette into deck A and a blank cassette into deck B.**

2 **Select the tape transport mode.**

Tape transport mode		DIRECTION MODE setting
To dub on one side of cassette		⇀
To dub on both sides	When using cassettes of different length	⇄
	When using cassettes of the same length	RELAY**

3 **Select dubbing speed:** press HIGH (for high speed) or NORMAL (for normal speed). Both decks go into the pause mode.

4 **Select the side to be dubbed:** Press ▶ for front side. Press ◀ for reverse side.

5 **Press ❚❚ on deck B.**
Dubbing begins.

To stop dubbing

During normal-speed dubbing	Press ■ on deck B.
During high-speed dubbing	Press ■ on either deck A or B.

Is it necessary to select DOLBY NR?
No. Because the tape in deck B is dubbed with the same Dolby NR system as was used for the tape in deck A.

Is it possible to listen to program sources other than tape during dubbing?
Yes. Any program soruce can be selected.

* When the tape on one deck comes to its end, it reverses immediately without regard of the tape position of the other deck.
** When the tape on one deck reaches its end, it stops until the other tape also comes to the end, and then both tapes reverses synchronously.

Eliminating Long Blanks during Dubbing

In normal speed dubbing, the blank skip function is effective.

1 Start normal speed dubbing.

2 Press AMS/BLANK SKIP.

When the deck A detects a blank of more than 10 seconds long, it skips to the beginning of the next selection, and the playback resumes. During that period, deck B rewinds the tape to make a blank of 5 seconds, and resumes recording when the playback on deck A restarts.

Skipping a Particular Portion during Dubbing

You can dub only desired portions on a tape.

1 Start normal speed dubbing.

2 Press ■ on deck A at the beginning of the portion to be skipped.
Deck B goes into the recording pause mode.

3 Search for the desired portion to be dubbed next on deck A using ▶▶ or ◀◀. Then press ■ to stop the tape.

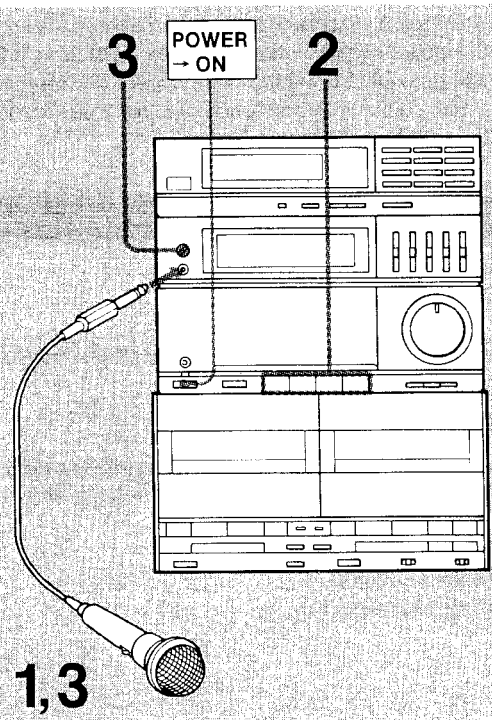
4 Press ❚❚ on deck B.
Dubbing begins again.

To insert a four-seconds blank space between selections
The record muting function is also available during normal speed dubbing. Press O when the deck B is in pause during dubbing.

Using a Microphone

Mixing Microphone Sound with a Source Program

This function allows you to add live singing or narration to a background program.



1 Connect a microphone to MIC.

2 Select the program source to be mixed with TAPE, CD, TUNER or PHONE, **and play it.**

3 Speak or sing into the microphone, and adjust the microphone level with MIC LEVEL.

Recording the sound mixed with a source other than tape

Insert a cassette into deck B, and set the deck to the record mode.

Recording from a Microphone Only

1 Turn off any equipment connected to CD/AUX at the rear.

2 Press CD.

3 Start recording on deck B.

4 Speak or sing into the microphone.

Important

When you have finished mixing, be sure to disconnect the microphone from the MIC jack, and turn the MIC LEVEL control fully to MIN.

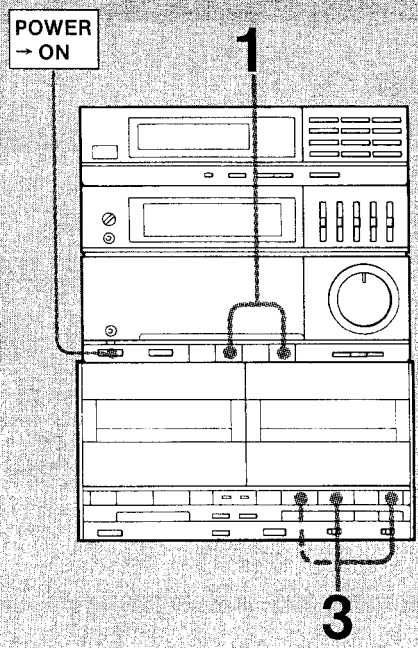
Why press CD when recording from a microphone only?

In this system, to record only the microphone sound, it must be mixed with a program source which has been turned off. Because the normal noise level occurring when CD is selected is the lowest of the four sources, we recommend pressing CD.

To stop howling (acousitc feedback)

Placing the microphone too close to the speakers may cause howling. Change the direction of the microphone and/or lower the volume to stop this noise.

Listening to/Recording from Other Sources



1 **Select the desired program source.**

Programe source	Function selector to be pressed
Compact disc	CD
Phono disc	PHONO

2 **Play the selected program source.**

3 **To record the source,** insert a cassette into deck B, and set the deck to the record mode.

For detailed operation of each unit, refer to its instruction manual.

Tips on recording from a compact disc
When recording from a compact disc, first start the deck, then start playing the compact disc. This is because the CD player can quickly locate and start playing the selected part. If the compact disc is started first, the beginning of the selection may not be recorded.

Maintenance

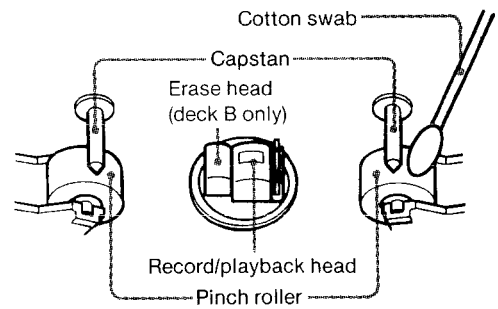
Cleaning the Heads and Tape Path

For the best quality in recording and playback, please clean the heads and tape path after every ten hours of operation, and before each recording. Soiled heads and tape path may cause sound drop-outs, loss of high frequencies, and reduced sound volume.

1 Press EJECT.

2 Slightly moisten the tip of a cotton swab with cleaning fluid or denatured alcohol.

3 Wipe the heads, pinch roller and capstan.



Do not reinsert a cassette until cleaned areas are completely dry.

Demagnetizing the Heads (Both Decks)

After 20 to 30 hours of use, or when you notice hiss and/or loss of high frequencies, the residual magnetism built up on the heads should be removed.

1 Turn off POWER.

2 Demagnetize the heads with any commercially available demagnetizer.
Refer to the instruction manual of the demagnetizer for detailed instructions.

Cleaning the Cabinet

Clean the cabinet, panel and controls with a soft cloth slightly moistened with a mild detergent solution.

Important

Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine.

Cassette Care

- Avoid touching the tape surface of a cassette, as any dirt or dust will contaminate the heads.
- Keep cassettes away from equipment with magnets, such as speakers and amplifiers, as erasure or distortion on the recorded tape could occur.
- Do not expose cassettes to direct sunlight, extremely high or low temperatures or moisture.

Troubleshooting Guide

Radio Program Reception

Symptom	Cause (and remedy)
Preset stations cannot be tuned in.	• You have not preset desired stations correctly. (See page 13.) • You have not pressed ENTER after selecting the station preset number. (See page 13.)
The TUNED indicator or STEREO indicator blinks.	• The signal strength is too weak. Adjust the location and direction of the antenna. Connect an external antenna if the indicator still blinks. (See page 7.)
Severe hum or noise.	• Antenna location or directions is improper. • The signal strength is too weak. Adjust the location and direction of the antenna. Connect an external antenna if hum or noise still interferes with the reception. (See page 7.) • Ground wire is not connected.

Cassette Deck Operation

Symptom	Cause (and remedy)
The tape operation buttons do not operate.	• The cassette holder is not completely closed. • There is no cassette in the cassette holder. • The cassette has been incorrectly inserted into the cassette holder (See page 14.)
The tape operation buttons other than ■ do not operate.	• High-speed dubbing is activated.
The ● button cannot be operated.	• No cassette in the cassette holder. • The tab is removed from the cassette. (See page 16.)
The ● or ▶ button cannot be activated.	• The tape is wound completely.
Tape does not move when the ▶ or ◀ button is activated.	• The ❚❚ button is activated.
The record muting does not take place.	• The ○ button on the remote commander is pressed in the mode other than recording in deck B. Use the ○ button on the remote commander only during recording in deck B.
Malfunctioning recording or playback, or decrease in sound level.	• Dirty heads. Clean the heads. (See page 22.) • Magnetic buildup on the record/playback head. Demagnetize the head. (See page 22.)
The NORMAL speed or HIGH speed button cannot be activated, and the indicator blinks.	• No cassette in deck A or B. • The tab of the cassette in deck B is removed. (See page 16.)
Excessive wow or flutter, or sound dropout.	• Contamination of the capstan or pinch roller. Clean the capstan and pinch roller. (See page 22.)
Incomplete erasure	• Magnetic buildup on the erase head. Demagnetize the head. (See page 22.)
Increase of noise or muffling of high frequencies	• Magnetic buildup on the erase head. Demagnetize the head. (See page 22.)
Unbalanced tone in higher frequencies	• Incorrect setting of the DOLBY NR switch. (See pages 14 and 16.)
The desired selection cannot be located even if you activate the AMS.	• There is noise in the space between selections. • The space is less than 4 seconds long. Press ○ to insert a longer blank space (See page 17.) • The ◀◀ or ▶▶ button is pressed immediately before or after the beginning of the following selection.

Cassette Deck Operation

Symptom	Cause (and remedy)
Playback or fast-winding may begin in the middle of the selection when AMS or blank skip is activated.	• The following will be treated as blanks: —a long pause in the music —a passage of low frequencies or very low volume —gradual increase or decrease of volume

Remote Control Operation

Symptom	Cause (and remedy)
Remote control operation cannot be made.	• Batteries in the remote commander are exhausted. Replace the batteries (See page 4.) • There is obstruction between the remote commander and the remote sensor on the tuner. • The remote commander is being used beyond its operating range. • Loose connection of the flat cords. (See page 6.)

General

Symptom	Cause (and remedy)
No audio	• The VOLUME control is set to its minimum. (See page 11.)
No audio from one channel or unbalanced left and right volume.	• Improper setting of the BALANCE control. (See page 11.) • The speaker cord is disconnected or its connection is incorrect. (See page 6.)
Reversed left and right sound	• Incorrect connection of the speaker cords. (See page 6.)
Lack of bass sound or apparently imprecise physical location of musical instruments	• Incorrect connection of the speaker + and – cords. (See page 6.)
No microphone sound during microphone mixing	• The MIC LEVEL control is set to MIN. Turn it toward MAX. (See page 20.)
Severe hum or noise	• A TV or VTR is too close to the stereo system.

Specifications

ST-707R TUNER

System FM stereo, FM/AM superheterodyne tuner
Quartz-locked PLL digital synthesizer system

FM tuner section

Tuning range 87.5 to 108 MHz
Antenna Telescopic antenna
Antenna terminals
75 ohms unbalanced
Intermediate frequency
10.7 MHz
Usable sensitivity 2.3 μV (S/N = 30 dB/75 ohms)

SW/MW tuner section

		SW1	SW2	MW
Tuning range		3.2 – 7.3 MHz	9.5 – 21.75 MHz	531 – 1,602 kHz
Antenna		Telescopic antenna		Built-in ferrite bar antenna
		External antenna terminal		
Usable sensitivity	Built-in ferrite bar antenna	—		250 μV/m (999 or 1,000 kHz)
	External antenna	23 μV (5 MHz)	30 μV (15 MHz)	100 μV (999 or 1,000 kHz)

General

Dimensions Approx. 220 × 55 × 240 mm (w/h/d)
(8 3/4 × 2 1/4 × 9 1/2 inches)
incl. projecting parts and controls
Weight Approx. 1.0 kg (2 lb 4 oz) net

TC-WR808 CASSETTE DECK

Recording system
4-track 2-channel stereo
Frequency response
DOLBY NR OFF (DIN)
With TYPE IV cassette (Sony METAL-ES)
40 to 15,000 Hz (±3 dB)
With TYPE II cassette (Sony UX-S)
40 to 14,000 Hz (±3 dB)
With TYPE I cassette (Sony HF-X)
40 to 13,000 Hz (±3 dB)
Wow and flutter 0,1% WRMS (NAB)
±0.2% (DIN)

Dimensions Approx. 225 × 120 × 260 mm (w/h/d)
(9 × 4 3/4 × 10 1/4 inches)
incl. projecting parts and controls
Weight Approx. 3.0 kg (6 lb 11 oz)

TA-808 AMPLIFIER

Peak music power output
380 W (6 ohms)

Inputs

Input jacks	Jack type	Sensitivity	Impedance
PHONO	Phono	2.5 mV	50 kohms
CD/AUX	Phono	450 mV	50 kohms
MIC	Stereo mini	1 mV	600 ohms

Outputs

HEADPHONES (stereo phone jack)	Accepts headphones of 8 ohms or more
SPEAKER	Accepts speakers of 6 to 16 ohms

General

Power requirements
120, 220 or 240 V AC, adjustable, 50/60 Hz
Power consumption
110 W
Dimensions Approx. 220 × 120 × 285 mm (w/h/d)
(8 3/4 × 4 3/4 × 11 1/4 inches)
incl. projecting parts and controls
Weight Approx. 4.5 kg (10 lb) net

APM-909 SPEAKER SYSTEM

Speaker system 3-way speaker system
Speaker unit Woofer: 134 cm² (20 3/4 in.²), APM type
Tweeter: 12.5 × 4.4 cm (5 × 1 3/4 in.), horn type
Super tweeter: 10 × 2 cm (4 × 13/16 in.) horn type
Enclosure type Bass reflex type
Sensitivity 90 dB/W/m
Impedance 6 ohms
Dimensions Approx. 175 × 290 × 220 mm (w/h/d)
(7 × 11 1/2 × 8 3/4 inches)
Weight Approx. 3.5 kg (7 lb 11 oz)
net per speaker

ACCESSORIES SUPPLIED

RM-808 Remote Commander (1)
Sony SUM-3(NS) batteries (2)
Flat cord (1)
CD player connecting cord (1)
Carrying handle (1)
Mounting blackets (2)
Mounting screws (10)

Design and specifications subject to change without notice.

OPTIONAL ACCESSORIES

CDP-S27 Compact Disc Player
PS-Q3A Turntable System